



SAW Components

Data Sheet B3824

Data Sheet

An abstract, grayscale background graphic featuring a globe with a grid pattern. Overlaid on the globe is a large, stylized, 3D-effect word "EPCOS" in a light gray color. The word is tilted and appears to be floating or emerging from the globe. The overall image has a soft, ethereal quality with a dark, smoky background.

EPCOS



SAW Components

B3824

Low-Loss Filter

1910 MHz

Data Sheet

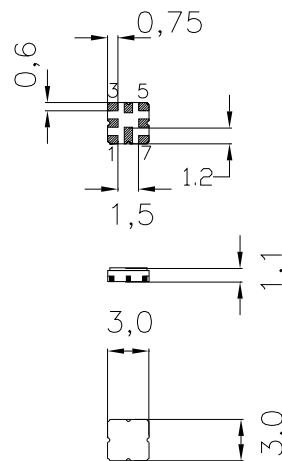
SMD ceramic package QCC8D

Features

- Very low loss RF filter
- Unbalanced to unbalanced or unbalanced to balanced operation
- Package for **Surface Mounted Technology (SMT)**

Terminals

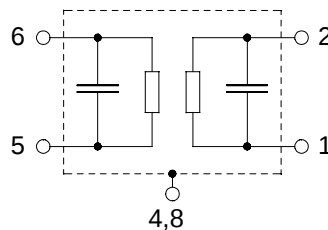
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

- | | |
|------|------------------|
| 6 | Input |
| 5 | Input ground |
| 2 | Output, balanced |
| 1 | Output, balanced |
| 3, 7 | To be grounded |
| 4, 8 | Case - ground |



Type	Ordering code	Marking and Package according to	Packing according to
B3824	B39192-B3824-U810	C61157-A7-A72-5	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40/+ 85	°C
Storage temperature range	T_{stg}	- 40/+ 85	°C
DC voltage	V_{DC}	0	V
Source power	P_s	3	dBm



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Characteristics

Operating temperature range:	T_A	=	-5 ... +85 °C
Terminating source impedance:	Z_S	=	50 Ω unbalanced
Terminating load impedance:	Z_L	=	50 Ω balanced

		min.	typ.	max.	
Nominal frequency	f_N	—	1910	—	MHz
Maximum insertion attenuation 1900 MHz ... 1920 MHz	$\alpha_{\max}$	—	2,0	3,0	dB
Amplitude ripple in passband (p-p) over any 4 MHz within 1900 MHz ... 1920 MHz	$\Delta\alpha$	—	0,5	0,7	dB
Group delay ripple in passband (p-p) over any 4 MHz within 1900 MHz ... 1920 MHz	$\Delta\alpha$	—	2,5	4,0	ns
Attenuation	α_{abs}				
100,0 MHz ... 1540 MHz		28	33	—	dB
1540 MHz ... 1810 MHz		33	37	—	dB
1810 MHz ... 1825 MHz		31	34	—	dB
2020 MHz ... 5000 MHz		15	20	—	dB
VSWR 1900 MHz ... 1920 MHz		—	1,8:1	2,4:1	
Deviation from linear phase (p-p) over any 4 MHz within 1900 MHz ... 1920 MHz		—	0,8	1,3	°



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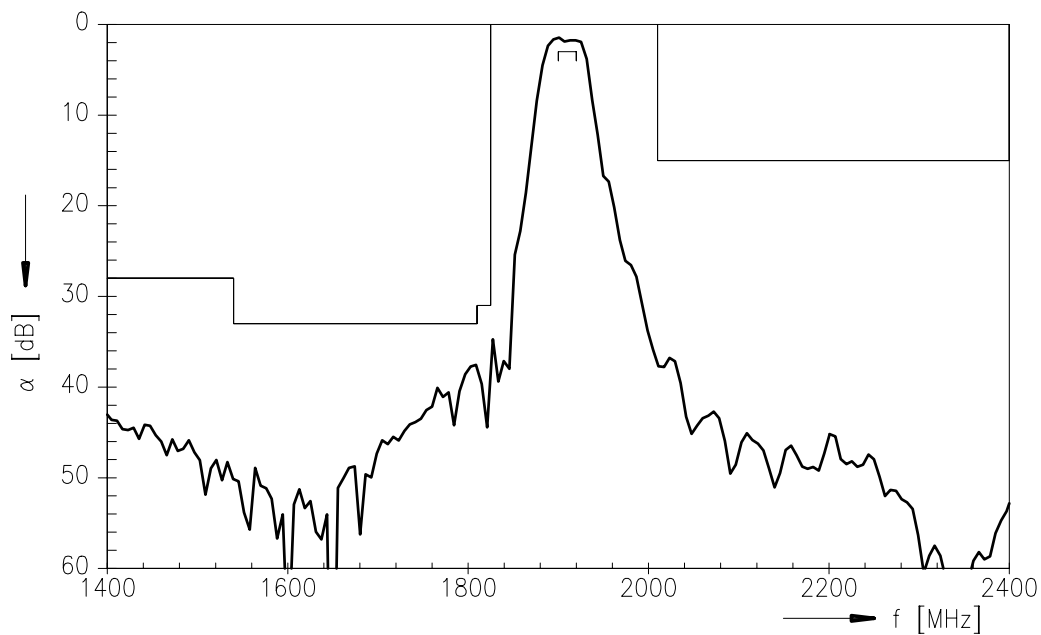
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Low-Loss Filter

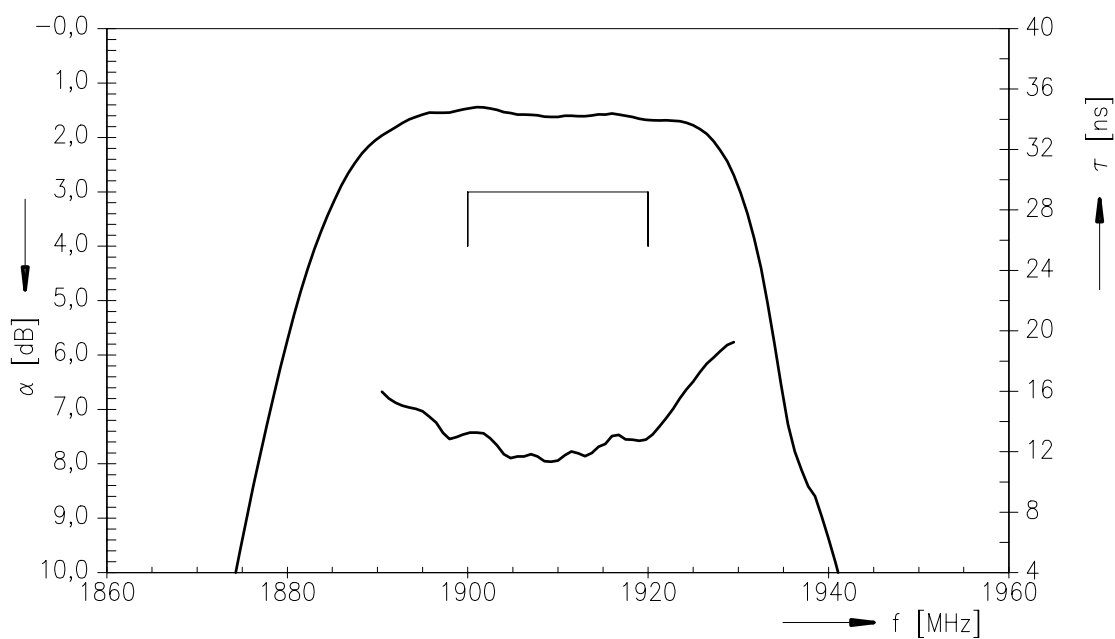
1910 MHz

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Transfer function



Transfer function (pass band)





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This brochure replaces the previous edition.

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Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.